



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,489	03/30/2004	Christopher Dirk Weigand	18040	4906
26794	7590	02/22/2006		
TYCO ELECTRONICS CORPORATION 4550 NEW LINDEN HILL ROAD, SUITE 450 WILMINGTON, DE 19808				
			EXAMINER NGUYEN, KHANH V	
			ART UNIT 2817	PAPER NUMBER

DATE MAILED: 02/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/813,489

Applicant(s)

WEIGAND ET AL.

Examiner

Khanh V. Nguyen

Art Unit

2817

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 28 November 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-3,6-11,13-17 and 19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3,6,7,10,11,14-17 and 19 is/are rejected.
- 7) ☒ Claim(s) 8,9 and 13 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 November 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-3, 6, 7, 10, 11, 14-17, 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adar (6,501,331).

Regarding claim 1, Adar discloses the claimed invention except the filter claimed. Adar (Fig. 1) discloses an amplifier circuit comprising: at least one first power amplifier (22) and at least one first matching circuit (26); at least one second power amplifier (32) and at least one second matching circuit (36); and a control signal (41) maybe from an external controller which is functionally equivalent of a decoder for controlling the

Art Unit: 2817

amplifiers (22, 32) via control circuit (40). It would have been obvious to one having ordinary skill in the art at the time the invention was made to have added a filter to respective matching circuits (26, 36), since it is well known in the art that filter has at least a function of filtering out desired signal or improve circuit stability.

Regarding claim 2, wherein the control signal (41) coupled to the at least first power amplifier (22).

Regarding claim 3, wherein at least one switch (44) coupled to the filter (26) via amplifier (22).

Regarding claim 6, wherein at least one switch (44) coupled to the amplifier (22) and the filter (26).

Regarding claims 7, 16, Adar discloses the claimed invention except the circuit elements are disposed on a leadframe. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have combined all circuit elements a single semiconductor chip ie. leadframe, because it is simpler and does not require a cumbersome circuit.

Regarding claims 10, 11, Adar discloses the claimed invention except an antenna/reception coupled to the switch. However, Adar's invention is wireless communication, as such there must be some kinds of signals are transmitted which may be read as an antenna/reception.

Regarding claims 14, 15, the type of filter used is based on intended use of the invention which is considered obvious to a person having ordinary skill in the art.

Regarding claim 17, Adar discloses the claimed invention except the filter claimed. Adar (Fig. 1) discloses an amplifier circuit comprising: at least one first power amplifier (22); at least one second power amplifier (32); a control signal (41) maybe from an external controller which is functionally equivalent of a decoder for controlling the amplifiers (22, 32) via control circuit (40); and a switch (44) for selectively enabling one of the amplifiers (22, 32). It would have been obvious to one having ordinary skill in the art at the time the invention was made to have added a filter to the output of respective amplifiers (22, 32), since it is well known in the art that filter has at least a function of filtering out desired signal or improve circuit stability.

Regarding claim 19, Adar's invention is for a wireless communication, as such there must be some kinds of signal is transmitted which may be read as an antenna/reception. The difference between Adar and claimed invention is the filter claimed. Adar (Fig. 1) discloses an amplifier circuit comprising: at least one first power amplifier (22) and at least one first matching circuit (26); at least one second power amplifier (32) and at least one second matching circuit (36); and a control signal (41) maybe from an external controller which is functionally equivalent of a decoder for controlling the amplifiers (22, 32) via control circuit (40). It would have been obvious to one having ordinary skill in the art at the time the invention was made to have added a filter to a respective matching circuits (26, 36), since it is well known in the art that filter has at least a function of filtering out desired signal or improve circuit stability.

***Allowable Subject Matter***

Claims 8, 9, 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 8 calls for, among others, the lead frame includes forty-two connector pads.

Claim 9 calls for, among others, at least one switch comprises a single pole six throw switch.

Claim 13 calls for, among others, the decoder provides control signals to the at least one switch coupled to the first and second filters.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh V. Nguyen whose telephone number is (571) 272-1767. The examiner can normally be reached from 8:00 AM - 3:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Art Unit: 2817

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Khanh Van Nguyen', with a long horizontal flourish extending to the right.

**KHANH VAN NGUYEN**  
**PRIMARY EXAMINER**  
**Art Unit: 2817**